













Applicant: Date: Sep 02, 2020

This Is To Supersede Report TSNT01322293 Dated Sep 01,

2020

Sample Description:

Attn

One (1) Pair Of Submitted Sample 13g Polyester+Carbon Liner With PU Fingertips Coated Gloves.

Standard : BS EN 16350:2014/EN 16350:2014(E)

Colour : Grey Size Range : XS-XXL

Palm Material : Polyester+Carbon Back Material : Polyester+Carbon Cuff Material : Elastic Yarn

Cuff Binding Material: -

Lining Material : Polyester+Carbon

Order No. : -Style No. : -Manufacturer's Name :

Date Received/Date Test Started: Aug 24, 2020

Paricle

Authorized By:

For Intertek Testing Services

(Tianjin) Ltd.

Patrick Gong General Manager









Tests Conducted:

 Vertical Resistance For Electrostatic Dissipative Protective Gloves (BS EN 16350:2014 / EN 16350:2014(E), 5.4.1 & EN 1149-2:1997)

Specimens Conditioning: Air Temperature: 23℃, Relative Humidity: 25% For 48 Hours

Testing Atmosphere: Air Temperature: 23°C, Relative Humidity: 25%

Input Voltage: 100 Volts Test Period: 15 Seconds

Specimen Dimension: 10 cm x 10 cm

Sample	Test Area	Specimen	Vertical	Requirement	Pass/Fail
			Resistance (Rv)		
=	Glove	Specimen 1	$< 5.0 \times 10^4 \Omega$	$< 1.0 \times 10^8 \Omega$	Pass
	Palm/Back	Specimen 2	$< 5.0 \times 10^4 \Omega$	$< 1.0 \times 10^{8} \Omega$	Pass
		Specimen 3	$< 5.0 \times 10^4 \Omega$	$< 1.0 \times 10^{8} \Omega$	Pass
		Specimen 4	$< 5.0 \times 10^4 \Omega$	$< 1.0 \times 10^8 \Omega$	Pass
		Specimen 5	$< 5.0 \times 10^4 \Omega$	$< 1.0 \times 10^8 \Omega$	Pass
	Glove Cuff	Specimen 1	7.2 x 10 ⁴ Ω	$< 1.0 \times 10^8 \Omega$	Pass
		Specimen 2	$5.4 \times 10^4 \Omega$	$< 1.0 \times 10^8 \Omega$	Pass
		Specimen 3	$6.3 \times 10^4 \Omega$	$< 1.0 \times 10^8 \Omega$	Pass
		Specimen 4	5.2 x 10 ⁴ Ω	$< 1.0 \times 10^{8} \Omega$	Pass
		Specimen 5	$6.9 \times 10^4 \Omega$	$< 1.0 \times 10^{8} \Omega$	Pass

The Test Was Conducted By Intertek Testing Services Guangzhou Ltd.







To: Date: Sep 02, 2020

Attn:

Re: Report Revision Notification

Report Number TSNT01322293

Dated Sep 01, 2020

Please Be Informed That All The Content Recorded In The Above Captioned Report Will Be Void. This Captioned Report Is Now Supersede By A Revised Report, Number TSNT01324581, Issued On Sep 02, 2020

Thank You For Your Attention.

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Test Report No. SHAEC2024949801 Date: 16 Dec 2020 Page 1 of 8

M I SIMI (CHINA) PRECISION MACHINERY TRADE CO., LTD.
BUILDING 10,999 HUANCHENG NORTH ROAD, FENGXIAN DISTRICT SHANGHAI CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : carbon liner coated with

PU

SGS Job No. : SP20-249498 - SUZ

Client Ref. Information: MTPTF/MTPHTF/MTPTZ/MTPHTZ

Country of Origin: CHINA

Date of Sample Received: 14 Dec 2020

Testing Period: 14 Dec 2020 - 16 Dec 2020

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Tom Ni

Approved Signatory





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Test Report No. SHAEC2024949801 Date: 16 Dec 2020 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 SHA20-249498.001 Gray glove

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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e sgs.china@sgs.com



No. SHAEC20249498	01	Date: 1	16 Dec 2020	Page 3 of 8
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	- mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg	Limit Unit MDL - mg/kg 5 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50	Limit Unit MDL 001 - mg/kg 5 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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No. SHAEC2024949801

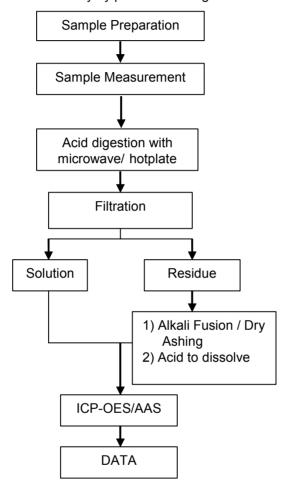
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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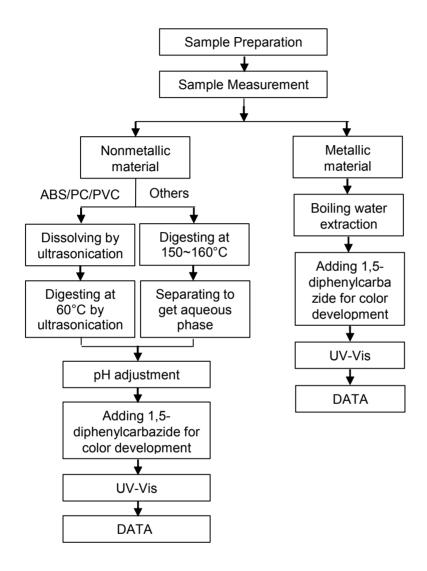
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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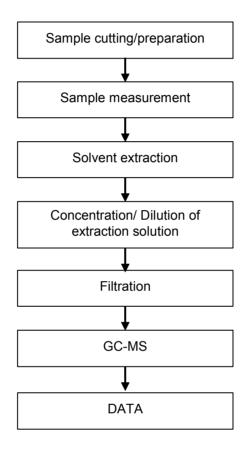
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Date: 16 Dec 2020

PBBs/PBDEs Testing Flow Chart





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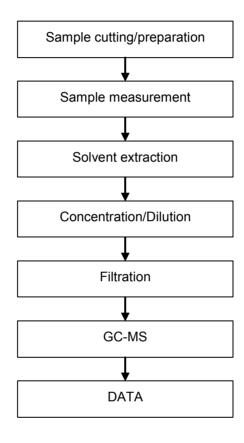
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Date: 16 Dec 2020

Phthalates Testing Flow Chart





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Sample photo:



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*** End of Report ***



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SAFETY DATA SHEET(MSDS) ESD GLOVE

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Misumi ESD Gloves.

Company Name: MISUMI(THAILAND) CO., LTD.

Address: 300/24 MOO 1, EASTERN SEABOARD INDUSTRIAL ESTATE SOI 5

T.TASITH, A.PLUAKDAENG, RAYONG 21140 THAILAND

Tel: 1382 Fax: 038-959202

Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Product Name: Misumi ESD Glove.

Material Composition	Percent(%)	CAS No.
Polyurethane	60%	9009-54-5
Polyester	30%	/
Carbon	8%	7440-44-0
Spandex	2%	/

Section 3 - HAZARDS IDENTIFICATION

Potential Health Effects

	Health Hazard Effects : None	
1.56	Environmental impact : None	
Hazard Effects	Physical and chemical hazard : None	
	Special damages : None	
Main Symptoms : No data		
Hazard Class : None		

Section 4 - FIRST AID MEASURES

Skin contact: Wash hands with mild soap after handling.

Eye contact: If the eyes are irritated flush with water for ten minutes. Obtain medical attention. Avoid ingestion. If ingested seek medical attention.

Section 5 - FIRE FIGHTING MEASURES

Flash Point: > 100 °C Lower Explosion Limit: N/A Upper Explosion Limit: N/A

Fire Hazard: Stable under normal situation. Flammable / Combustible under extreme high heat and flame. Can generate toxic and combustible fumes, - carbon monoxide, nitrogen and hydrocarbon compounds, and soot.

Fire Fighting Procedures: Use full protective equipment and SCBA, filter masks, etc.

Extinguishing Media: High expansion foam, water fog and spray.

Section 6 - ACCIDENTAL RELEASE MEASURES

Release Response: Retain for recycle or disposal.

Section 7 - HANDLING AND STORAGE

Gloves shall maintain their properties when stored in dry condition at temperature between 10°C to 30°C. Protect gloves against ultraviolet light sources such as sunlight and oxidizing agents.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control

Use local exhaust in confined spaces where gloves are heated.

Personal Protective Equipment

Eyes: Not required. or just use goggles if gloves are heated.

Inhalation: Not required. or use face mask 3 ply

Skin: Not required. or use heat resistance gloves if heated to melting state.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Textured, White color

Physical State: Rubber / Odor / pH : 7 (Reference average)

Section 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable at normal temperature and storage condition.

Conditions to Avoid: Avoid contact with excessive heat, sparks or open flame. Avoid

dust accumulation.

Incompatibility with other materials

No specific information is available, however strong oxidizers or reducing agents which generally not compatible with compounds.

Hazardous Decomposition Products

Fumes produced when heated to decomposition temperatures may contain carbon monoxide, carbon dioxide, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from natural leather, like those of other natural and synthetic materials, must be considered toxic.

Section 11: TOXICOLOGICAL INFORMATION

No information is available.

Section 12: ECOLOGICAL INFORMATION

Product of Biodegradation: Biodegradable.

Ecotoxicity: Considered as inert.

Section 13: WASTE TREATMENT

Waste disposal

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Incineration: Put appropriate amount of the gloves into the incinerator or furnace to destroy them following the requirements shown below.

Requirements:

- 1) Burning temperature exceeds 850oC
- 2) Combustion retention time is not less than 2 seconds

Note: Gloves should not be destroyed by open burning at low temperature or dispose at normal disposal area

Section14: TRANSPORTATION INFORMATION

Non-dangerous goods.

Section 15: LAW INFOMATION

No information is available.

Section 16: OTHER INFORMATION

This Product Safety Data Sheet is offered solely for your information. Misumi(Thailand) Co.,Ltd provides no warranties, either express or implied, concerning the sage use of this product in your process or in combination with other substances and assumes no responsibility for the accuracy or completeness of the data contained herein. User has the sole responsibility to determine the suitability of they use and the manner of use contemplated.



EU-TYPE EXAMINATION CERTIFICATE



The following model of Personal Protective Equipment has been subjected to an EU-type examination in accordance with the module B of the PPE regulation (2016/425) and has been shown to satisfy to essential health and safety requirements.

Certificate N° 0075/3325/162/11/19/3440

Issued by CTC, Notified Body N°0075, to the following model of personal protective equipment:

Manufacturer:

The content of this section is manufacturer's information.

Description

PPE Type: protective glove against mechanical risks, with electrostatic

properties

Product reference:

Article code : /

Glove description: 13 gauge carbon+polyester liner with PU fingertips coated

Available sizes: 6/XS -12/XXXL

Pictures:

Size: 7/S

(€ [†]

EN388:2016+A1:2018 EN16350:2014



LOT_XXXXX



The content of this section is manufacturer's information.

Reference standard:

Levels of performance / class of protection

« X » indicates that the glove has not been submitted to the test or the test method appears not to be suitable for the glove design or material.
« 0 » indicates that the glove falls below the minimum performance level for the individual hazard.

EN ISO 21420:2020

EN 388:2016 + A1:2018

113XX

EN 16350:2014

Conform

At the date of the certificate, the product is in compliance with Annex XVII of REACh regulation (n° 1907/2006 and revisions)

Full description of the PPE, reference rules verified in the context of the EU-type examination and information given on the product are detailed in the manufacturer's technical file and the user instructions index 02 dated from JANUARY 2024.

NOTA: Any modification to new items of the personal protective equipment object of this EU type approval certificate or any modification of the information contained in the manufacturer technical file which served for the deliverance of the EU type approval certificate (change of address, change of company status) should be brought to the attention of the notified body in accordance with Annex V §7.2 of Regulation 2016/425. Any marking on the PPE which is not concerned by the Regulation (UE) 2016/425, is not covered by this certificate.

Issued in Lyon by
William GELAS
Certification manager

NB 0075
NB 0075
NB 0075

Date of first issue: 26 November 2019

Date of end of validity: 26 November 2029

Date of update 01: 15 January 2024

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Accreditation n# 5-0594
Scope available on:

n° 0075



The content of this section is manufacturer's information.

MANUFACTURER'S TECHNICAL FILE TO THE PPE REGULATION 2016/425

Reference of the product	:	
Article code	:	I
Technical file index	l:	02

Last update : JANUARY 2024

IDENTIFICATION

Reference of the product:

Article code : : /

Basic Model

Technical file index: : 02

Last update : JANUARY 2024

Manufacturer:

The content of this section is manufacturer's information.

Factory:

The content of this section is manufacturer's information.

GLOVE DESCRIPTION

General glove description and intended use:

13 gauge carbon+polyester liner with PU fingertips coated

This glove is designed against mechanical risks, with electrostatic properties.

Type of coating finish: no coating

Visual description (picture back and palm sides):



Risk	Risk assessment (Essential Health and Safety Requirement. Annex II - PPE Regulation)					
	Applicable					
			Standard Standard			
§1	Requirements defined in the Annex II §1 are applicable to all PPE	\boxtimes				
			Marking			
			Standard Standard			
§1.4	Manufacturer's instructions and information is available	\boxtimes				
			☐ Marking			
	PPE which may be caught up during use	\boxtimes	☐ Standard			
§2.5						
			☐ Marking			
50.6	DDE for use in notontially explosive atmospheres	\boxtimes	Standard Instruction for use			
§2.6	PPE for use in potentially explosive atmospheres		Instruction for useMarking			
		\boxtimes	⊠ Narking ⊠ Standard			
§2.12	PPE bearing one or more identification markings or indicators directly		☐ Standard ☐ Instruction for use			
32.12	or indirectly relating to health and safety					
			⊠ Standard			
§2.14	Multi-risk PPE	\boxtimes	Instruction for use			
			Marking Marking			
		\boxtimes	⊠ Standard			
§3.3	The PPE is intended to protect against mechanical injuries					
			Marking Marking			

Glove constitution:

	Reference	Color	Material	Surfacic mass (g/m²)	Gauges	Thickness
Palm	finger coating	white	PU			0.05mm
	liner	grey+white	carbon/polyester	200g/sqm	13	
Back	finger coating	white	PU			0.05mm
	liner	grey+white	carbon/polyester	200g/sqm	13	
Cuff		grey+white+ brown	carbon/polyester/elastic	250g/sqm	13	
Binding		brown	Polyester			

PROTECTION SCOPE

This glove meets the essential requirements of the Personal Protective Equipment Regulation 2016/425.

This glove is designed against mechanical risks, with electrostatic properties.

It is a category II product.

GENERAL REQUIREMENTS

Standard EN ISO 21420 : 2020

Dexterity:

Available size range: 6/XS -12/XXXL

THE HARD SIZING SYSTEM IS DASED ON HARD CITCUMFERENCE AND HARD TENGUM AS DEFINED IN EN 150 Z 1420 ANDEX D TABLE R 1

SPECIFIC REQUIREMENTS AND PERFORMANCE LEVELS

- « X » indicates that the glove has not been submitted to the test or the test method appears not to be suitable for the glove design or material.
- « 0 » indicates that the glove falls below the minimum performance level for the individual hazard.

Mechanical hazard EN 388:2016 + A1:2018

Protection offered	Performance levels
Abrasion resistance	1
Blade cut resistance	1
Tear strength resistance	3
Puncture resistance	X
Cut Resistance method (EN ISO 13997)	X
Impact Protection	N/A

The levels of performance have been measured on the palm.

Electrostatic properties EN 16350:2014

Protective glove with electrostatic properties

TEST REPORTS

Laboratory	СТС	Other
EN ISO 21420 + innocuousness	S230605449_1 S230605439_1 S230605451_1(DMFu) S230807554_1	
EN 388	S230605449_1	
EN 16350	S230605439_1	

MARKING - PACKAGING

Information printed on the glove:

Logo of Manufacturer:

Logo (€

Glove's reference :
Article Code :

Size indicator

Pictograms related to risks against which protection is offered with performance levels

Information pictogram

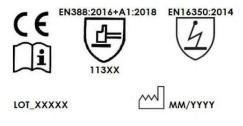
Address of Manufacturer:

Date of Manufacture (month/year) and/or serial/batch number:

Date of obsolescence (month/year) if applicable:

Marking example:

Size: 7/S



The content of this section is manufacturer's information.

Method of marking on the glove:

Silk print on back

Packaging suitable for transport:

1 pair/clear bag, 10 pairs/bigger bag, 300 pairs/carton

PPE subject to ageing :

The design performance can not be significantly affect by ageing when stored in appropriate conditions (humidity, temperature, clean, ventilated, light).

Cleaning instructions:

The gloves are not washable.

MEANS OF CONTROL

1.Raw materials

We have specific person responsible for the purchasing of all required raw materials. The management supervises all the purchasing procedure down from supplier's site to ensure the excellent quality of raw materials.

2.Process

Glove production mainly consists of shell knitting, binding, dipping, washing and drying, as well as logo printing and packaging. Supervisors are in place to implement the required technical procedure. Daily records and production details are strictly controlled. Every operator has a specific serial number which will be shown on the final products for future tracking.

3. The management of knitting

Glove shells are knitted according to clients' unique requirements, such as overlocking and cuff colors, all with clean, defect-free surface. These shells are binded with elastic bands by dozens with recognizing labels.

4. The management of dipping

All gloves are fully encased on hand mould in order to avoid any interspace between gloves shells an mould. The gloves should be dipped neither too deep nor too fleet while glove mould are kept fixed and symmetric.

5. Washing and drying

After dipping, gloves go through water and then are dried for next process of logo printing.

6.Gloves are screen-printed or hot transferred with our own or client' logo. Strict procedure are taken to ensure clear and trim image. Our QC will pick up some samples in every batch and do Abrasion, Cut tests and so on under EN388 and EN ISO 21420, EN 16350 once in 5 years.

In conclusion, the whole procedure and process are in line with the essential requirements and provision of Council Regulation 2016/425 and conforms to standards EN388, EN ISO 21420 to ensure high quality to ensure high quality of our products.



INSTRUCTIONS FOR USE

The content of this section is manufacturer's information.

Glove reference :
Article code: /
User notice index : 02

Last update: JANUARY 2024

Glove description:

13 gauge carbon+polyester liner with PU fingertips coated

This glove is a personal protective equipment belonging to the category II.

It meets the requirements of the PPE Regulation 2016/425: innocuousness, comfort, solidity.

It has been subject to a UE-type Examination performed by :

C.T.C. (0075) 4, rue Hermann Frenkel 69367 LYON Cedex 07 FRANCE

(0075)

Size: 7/S

LOT_XXXXX

EN388:2016+A1:2018 EN16350:2014

The content of this section is

manufacturer's information.

The glove meets the requirements of the standard EN ISO 21420:2020 « Protective Gloves - General requirements and test methods ».

Dexterity: 5

Available size range: 6/XS -12/XXXL

The hand sizing system is based on hand circumference and hand length as defined in EN ISO 21420 Annex B.

Information about marking

« X »indicates that the glove has not been submitted to the test or the test method appears not to be suitable for the glove design or material.

« 0 » indicates that the glove falls below the minimum performance level for the individual hazard.



The CE marking means that this product meets the requirements of the regulation 2016/425

Mechanical hazard - EN 388:2016 + A1:2018



1 1 3 X X Levels of performance

Abrasion resistance	1	(on 4 maxi)
Blade cut resistance	1	(on 5 maxi)
Tear resistance	3	(on 4 maxi)
Puncture resistance	X	(on 4 maxi)
Cut Resistance method (EN ISO 13997)	Х	(A to F)
Impact Protection		

Electrostatic Properties - EN 16350:2014



Protective gloves with electrostatic	Conform
properties	Comoni



Read carefully the instructions for use provided with the product

Protection limit:

Users should be warned that gloves should not be worn when there is a risk of entanglement by moving parts of machines.

This model does not contain any substances at levels that are known to, or suspected to, adversely affect user hygiene or health.

The protection against risks or hazards which are not mentioned in this document is not warranted.

These levels of performance are obtained from the tests done according to conditions defined by the applicable standards.

The levels of performance mentioned are only valid for new gloves, not washed, nor regenerated.

Before use, the glove shall be visually inspected for any defect or imperfections. In case of deterioration, the gloves must be scrapped (abrasion, cut, tear...).

No flame protection is claimed. This glove shall not be in contact with naked flame.

For gloves with two or more layers the overall classification does not necessarily reflect the performance of the outermost layer.

The levels of performance against mechanical risks are only valid for the palm of the glove.

Conditionning	23°C / 25% HR
Area of gloves tested	Fingertips
Test Method / Electrode used	EN 61340-2-3 / Small electrode
Applied voltage	100 V
Vertical Resistance	1.52 Mohms

Conditionning	23°C / 25% HR
Area of gloves tested	Palm/back/cuff
Test Method / Electrode used	EN 61340-2-3 / Small electrode
Applied voltage	10 V
Vertical Resistance	0.689 Mohms

The person wearing gloves with electrostatic properties shall be properly earthed e.g. by wearing adequate footwear

Gloves with electrostatic properties shall not be unpacked, opened, adjusted or removed whilst in flammable or explosive atmospheres or while handling flammable or explosive substances

The electrostatic properties of gloves might be adversely affected by ageing, wear, contamination and damage, and might not be sufficient for oxygen enriched flammable atmospheres where additional assessments are necessary.

All clothing and shoes worn with this type of glove shall also be designed taking the electrostatic risk into account.

Storage and cleaning notice

Keep in its original packaging, under ordinary temperature and humidity conditions and in clean, covered and ventilated premises.

The gloves are not washable.

PPE subject to ageing:

The design performance can not be significantly affect by ageing when stored in appropriate conditions (humidity, temperature, clean, ventilated, light).

Declaration of conformity:

Available with product.